

# **Statement to the NCVHS**

## **Subcommittee on Standards and Security**

### **Scope and Criteria for Selection of PMRI Terminologies**

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# Cancer Information Products and Systems (Office of Communications)

- *Cancer.gov*, NCI's portal website
- Physician Data Query (PDQ) including:
  - Evidence-based summaries
  - Clinical trials database
- Content for Cancer Information Service

# Cooperation with the NCI Center for Bioinformatics (NCICB)

- NCI Thesaurus

*A core, controlled reference terminology*

- NCI Metathesaurus

*A meta-vocabulary environment*

# The National Cancer Institute

## Challenges:

- Diverse missions, organizations, and goals
- Inheritance of legacy systems
- Changing health information models
- Rapid changes in science, technology, and methods

# NCI Initiatives:

- Integration within and beyond institute
- Tools and technologies
- Cancer Data Standards Repository (caDSR)
- NCI Thesaurus and Metathesaurus

# Cancer Medicine:

- A broad domain
- Rapidly changing
- A challenge to standardization

# Vocabulary Standards Must Ensure:

- Adaptability to incorporate intellectual content changes
- Capability for frequent update cycles
- Flexibility to map to other vocabularies

# Integrated Terminology and System Needs:

- HIPAA requirements
- National Health Information Infrastructure (NHII)
- Cooperative and Federal eHealth initiatives

	Procedures and Techniques	Findings	Diagnoses	Etiology	Treatment	Adverse Events	Outcomes	Risk Factors	Prevention	Anatomy	Processes	Biologically Active Substances	Microorganisms	Genes and Proteins	Drugs and Chemicals	Research	Fields of Science	Fields of Specialization	Conceptual Entities	Health Care Systems	Health-Related Products	Properties or Attributes	Reporting Requirements	Specifications	Standards	
HL7																										
DICOM																										
NCPDP																										
IEEE																										
X12N																										
CDT-2																										
CPT-4																										
HCPCS																										
ICD-9-CM / ICD-9-V3																										
ICD-10-CM																										
ICD-10-PCS																										
ICIDH-2																										
Alternative Link																										
DSM																										
LOINC																										
MEDCIN																										
MedDRA																										
SNOMED CT																										
Cerner (Multum)																										
FDA/VA Drug RT																										
First Data Bank																										
NDC																										
HHCC																										
NANDA																										
NIC																										
NMMDS																										
NOC																										
OMAHA																										
PCDS																										
PNDS																										
UMDNS (ECRI)																										
DEEDS																										
UPN (HIBCC)/UPC (UCC)																										

Table 1: Terminology Evaluation by Content Domain (Example)

# PMRI Terminology Selection: Priorities

- HL7 vocabularies and standards
- Cooperative Federal Projects
- Open-source collaborations

# PMRI Terminology Selection: Criteria

- Explicit quality assurance
- Rapid update
- Content control by domain experts

# PMRI Terminology Selection: General

- Encourage ANSI accreditation
- Avoid unduly restrictive sources
- Evaluate mappings, not just vocabularies

# More Unified Terminologies and Systems

*At NCI, and beyond . . .*